1N17~1N19 1.0Amp Schottky Barrier Rectifiers

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guardring for overvoltage protection
- ◆ Low power loss, high efficiency
- ◆ High current capability,low forward voltage drop
- High surge capability
- ◆ For use in low voltage,high frequency inverters, free wheeling,and polarity protection applications
- High temperature soldering guaranteed:
 250°C/10 seconds,0.375"(9.5mm) lead length,
 5 lbs. (2.3kg) tension

Mechanical Data

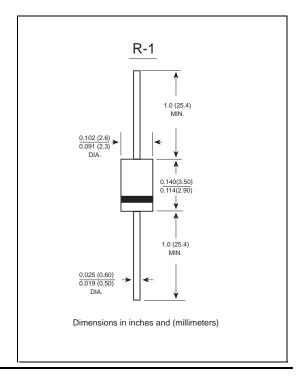
Case: R-1 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.007 ounce, 0.20 grams



Maximum Ratings And Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	1N17	1N18	1N19	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	VOLTS
Maximum RMS voltage	VRMS	14	21	28	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at T∟=90 ℃	I(AV)	1.0			Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	25.0			Amps
Maximum instantaneous forward voltage at 1.0A	VF	0.450	0.550	0.600	Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	lR	0.5 10.0			mA
Typical junction capacitance (NOTE 1)	CJ	110.0			pF
Typical thermal resistance (NOTE 2)	RθJA	50.0			°C/W
Operating junction and storage temperature range	T _J ,T _{STG}	-65 to +125			°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.

2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted